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10/696,432 10/29/2003 Ying-Lang Wang	TS01-167CB 6825
8933 7590 07/11/2005	EXAMINER
DUANE MORRIS, LLP IP DEPARTMENT	BEREZNY, NEMA O
ONE LIBERTY PLACE	ART UNIT PAPER NUMBER
PHILADELPHIA, PA 19103-7396	2813

DATE MAILED: 07/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

1		
	Application No.	Applicant(s)
Office Action Summary	10/696,432	WANG ET AL.
	Examiner	Art Unit
	Nema O. Berezny	2813
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) days of the period for reply is specified above, the maximum statutory failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a resion. s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT at statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 2a)⊠ This action is FINAL. 2b)□ 3)□ Since this application is in condition for all closed in accordance with the practice units.	This action is non-final. Ilowance except for formal matte	
Disposition of Claims		
4) Claim(s) 17-19,21-24 and 26 is/are pendid 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 17-19,21-24 and 26 is/are reject 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and are subjected to by the Example 10) The specification is objected to by the Example 2003 is applicant may not request that any objection of the specific subject sub	thdrawn from consideration. ted. and/or election requirement. aminer. is/are: a) accepted or b) obto the drawing(s) be held in abeyand correction is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by t	ne examiner. Note the attached	Office Action of form P10-132.
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	uments have been received. uments have been received in Apele priority documents have been Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview S	ummary (PTO-413)
2) Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449 or PTO/949) Paper No(s)/Mail Date	Paper No(s	niming (F10-413))/Mail Date formal Patent Application (PTO-152)

DETAILED ACTION

This Office Action is in response to Applicant's Amendment filed 4-18-05, which has been entered and considered. Cancellation of claims 20 and 25 is acknowledged.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17, 19, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andreas (6,358,325). Andreas discloses a surface treatment process, comprising: providing a hydrophillic surface; polishing said surface with a slurry that comprises a suspension of abrasive particles in deionized water and TMAH, whereby said surface is rendered hydrophobic (col.3 lines 45-48, 63-65; col.4 lines 34-43); and thereby causing all of said abrasive particles to be removed when said surface is rinsed in deionized water (col.4 lines 43-46). However, Andreas does not disclose said abrasive particles having a mean diameter of between about 1 and 10,000 microns. Note that the specification contains no disclosure of either the critical nature of the claimed dimensions or any unexpected results arising therefrom. Where patentability is said to be based upon particular chosen dimensions or upon another variable recited in a claim, the Applicant must show that the chosen dimensions are

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critical. <u>In re Woodruff</u>, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Circ. 1990) [claim 17].

Based upon the rejection of claim 17 above, Andreas also discloses wherein said abrasive particles are selected from the group consisting of alumina and silica (col.4 lines 43-46) [claim 19]; and wherein said hydrophilic surface is selected from the group consisting of tungsten, silicon oxide, and copper (col.3 lines 63-65) [claim 21].

Claims 18, 22-24, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andreas as applied to claim 17 above, and further in view of Grieger et al. (6,468,951). Andreas does not disclose TBAH, or a TMAH concentration of 2-20%, or said abrasive particles having a mean diameter of between about 1 and 10,000 microns. However, Andreas would look to one such as Grieger for a cleaning composition because Grieger discloses a polishing slurry comprising TBAH (col.6 line 7). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to use the TBAH of Grieger with the process of Andreas for an effective cleaning composition (col.6 lines 8-15). Note that the specification contains no disclosure of either the critical nature of the claimed dimensions or any unexpected results arising therefrom. Where patentability is said to be based upon particular chosen dimensions or upon another variable recited in a claim, the Applicant must show that the chosen dimensions are critical. In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Circ. 1990) [claim 22].

Based upon the rejection of claims 17 and 22 above, Andreas would also look to one such as Grieger for a TMAH concentration of 2-20% because Grieger discloses wherein the TMAH has a concentration in said deionized water of between about 2% and 20% (col.5 line 64 – col.6 line 2). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to use the TMAH concentration of Grieger with the process of Andreas for an effective cleaning composition (col.6 lines 2-4) [claims 18, 23].

Based upon the rejection of claim 22 above, Andreas discloses wherein said abrasive particles are selected from the group consisting of alumina and silica (col.4 lines 43-46) [claim 24]; and wherein said hydrophilic surface is selected from the group consisting of tungsten, silicon oxide, and copper (col.3 lines 63-65) [claim 26].

Response to Arguments

Applicant's arguments with respect to claims 17-26 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nema O. Berezny whose telephone number is (571) 272-1686. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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CRAIG A. THOMPSON